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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/910,929	07/24/2001	Herve Le Floch	1807.1619	3572
5514 FITZPATRICI	7590 11/14/2007 C CELLA HARPER & SCI	EXAMINER		
30 ROCKEFE	LLER PLAZA	POPHAM, JEFFREY D		
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			2137	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)
		09/910,929	LE FLOCH, HERVE
,	Office Action Summary	Examiner	Art Unit
		Jeffrey D. Popham	2137
Period for	- The MAILING DATE of this communication app r Reply	ears on the cover sheet with th	e correspondence address
A SHC WHIC - Extens after S - If NO - Failure Any re	DRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DASIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period ve to reply within the set or extended period for reply will, by statute to the provision of the Office later than three months after the mailing digital patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATI 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS for cause the application to become ABANDO	ON. e timely filed rom the mailing date of this communication. DNED (35 U.S.C. § 133).
Status			
2a) ☐ 3) ☐	Responsive to communication(s) filed on <u>31 Al</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters,	
Disposition	on of Claims		
5)⊠ 6)⊠ 7)□ 8)□ Application 10)⊠	Claim(s) 1,3-8 and 10-26 is/are pending in the 4a) Of the above claim(s) is/are withdray Claim(s) 1,3,8,10,15 and 19-22 is/are allowed. Claim(s) 4-7,11-14,17,18 and 23-26 is/are rejected to. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or papers The specification is objected to by the Examine The drawing(s) filed on 24 July 2001 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath of the oath of the oath of the oath o	wn from consideration. cted. r election requirement. r. ⊠ accepted or b) □ objected to drawing(s) be held in abeyance. tion is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).
Priority u	nder 35 U.S.C. § 119		
12)⊠ <i>/</i> a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the prio application from the International Bureau ee the attached detailed Office action for a list	s have been received. s have been received in Applic rity documents have been rece u (PCT Rule 17.2(a)).	cation No eived in this National Stage
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summ Paper No(s)/Ma 5) Notice of Inform 6) Other:	

Remarks

Claims 1, 3-8, and 10-26 are pending.

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/3/2007 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 4-7, 11-14, 16-18, and 23-26 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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3. Claims 4-7, 11-14, 17, 18, and 23-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakagawa (U.S. Patent 6,104,826) in view of Nakamura (U.S. Patent 6,185,312) and Collier (U.S. Patent 6,360,000).

Regarding Claim 4,

Nakagawa discloses a method for extracting a message from digital data representative of physical quantities, the message including ordered symbols, comprising the steps of:

Extracting a length of an inserted message, from a set of length values, based on the digital data (Column 13, line 10 to Column 14, line 4); and

Extracting the inserted message (Column 13, line 10 to Column 14, line 4);

But does not explicitly disclose segmenting the data into regions or that the extracting step includes generating a key which depends on an initial key and on an assumed length for the inserted message from the set of length values.

Nakamura, however, discloses segmenting the data into regions (Column 11, lines 16-61); and extracting the inserted message (Column 11, lines 16-61); wherein the step of extracting a length of an inserted message includes a step of generating a key which depends on an initial key and on a length for the inserted message from the set of length values (Column 12, lines 13 to Column 13, line 10). It would have been obvious

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to one of ordinary skill in the art at the time of applicant's invention to incorporate the keyed watermarking scheme of Nakamura into the watermark embedding/extracting system of Nakagawa in order to secure the watermark through the use of keys, such that an entity that does not have access to the proper keys cannot find or extract the watermark.

Collier, however, explicitly discloses use of an assumed length in the extraction process (Column 5, line 54 to Column 6, line 11; and Column 11, lines 10-46). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the watermark detection techniques of Collier into the watermark embedding/extracting system of Nakagawa as modified by Nakamura in order to allow watermarks to be detected when the scaling of a piece of content (such as video) is unknown or has been changed by an unknown scale factor, when the watermarked data has undergone an arbitrary shift, as well as when the size of the watermark is unknown.

Regarding Claim 11,

Claim 11 is a device claim that corresponds to method claim 4 and is rejected for the same reasons.

Regarding Claim 17,

Claim 17 is an apparatus claim that corresponds to method claim 4 and is rejected for the same reasons.

Regarding Claim 18,

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Claim 18 is an apparatus claim that corresponds to method claim 4 and is rejected for the same reasons.

Regarding Claim 23,

Claim 23 is a storage medium containing a computer readable program claim that corresponds to method claim 4 and is rejected for the same reasons.

Regarding Claim 26,

Claim 26 is a storage medium containing a computer readable program claim that corresponds to method claim 4 and is rejected for the same reasons.

Regarding Claim 5,

Nakagawa as modified by Nakamura and Collier discloses the method of claim 4, in addition, Nakagawa discloses that the step of extracting the length of the inserted message includes the steps of:

Selecting the set of length values (Column 13, line 10 to Column 14, line 4);

Calculating a correlation value between the message and the digital data, for each of the length values (Column 13, line 10 to Column 14, line 4); and

Determining a local maximum among the correlation values (Column 13, line 10 to Column 14, line 4).

Regarding Claim 12,

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Claim 12 is a device claim that corresponds to method claim 5 and is rejected for the same reasons.

Regarding Claim 6,

Nakagawa as modified by Nakamura and Collier discloses the method of claim 4 or 5, in addition, Nakagawa discloses that the step of extracting the length of the inserted message is carried out while processing F times fewer coefficients than included in the digital data (Column 13, line 10 to Column 14, line 4).

Regarding Claim 13,

Claim 13 is a device claim that corresponds to method claim 6 and is rejected for the same reasons.

Regarding Claim 7, ...

Nakagawa as modified by Nakamura and Collier discloses the method of 6, in addition, Nakagawa discloses determining a total number of coefficients to be considered (Column 13, lines 35-44); selecting a maximum number of coefficients corresponding to a same inserted symbol, and, if the total number of coefficients to be considered has not been reached, reiterating the selecting step for another symbol (Column 13, line 10 to Column 14, line 4).

Regarding Claim 14,

Claim 14 is a device claim that corresponds to method claim 7 and is rejected for the same reasons.

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Regarding Claim 24,

Nakagawa as modified by Nakamura and Collier discloses the storage medium of claim 23, in addition, Nakamura discloses that the storage medium is detachably mountable on a device (Column 53, lines 16-20).

Regarding Claim 25,

Nakagawa as modified by Nakamura and Collier discloses the storage medium of claim 23, in addition, Nakamura discloses that the storage medium is a floppy disk or CD-ROM (Column 53, lines 16-20).

4. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakagawa in view of Nakamura and Collier, further in view of Keener (U.S. Patent 5,293,590).

Nakagawa as modified by Nakamura and Collier discloses the device of claim 11, in addition, Nakagawa discloses that the extraction method is incorporated into a microprocessor, and a read only memory including a program for processing the data (Column 12, lines 28-67); but may not explicitly disclose RAM.

Keener, however, discloses RAM in use in a conventional computer system (Column 4, lines 21-43). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the use of RAM of Keener into the watermark embedding/extracting system of Nakagawa as

modified by Nakamura and Collier in order to provide working memory that has fast access times and can be used quickly and efficiently.

Allowable Subject Matter

5. Claims 1, 3, 8, 10, 15, and 19-22 are allowed. Additionally, multiple dependent claims 17 and 18 are allowable in their dependence on claims 1 and 8, but not 4 and 11.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey D. Popham whose telephone number is (571)-272-7215. The examiner can normally be reached on M-F 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571)272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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EMMANUEL L. MOTOE SUPERVISORY PATENT EXAMINER